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BIOB 101N.00: Discover Biology

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BIOB 101 – Discovering Biology Course Syllabus and Lecture Outline
M - W 11:10 -12:00 pm
Fall 2014

Instructor: Dr. Kevin Murray

Office: NS 113

Office hours: TBA

Phone: 4495; email: kevin.murray@umontana.edu

Required texts:

Lecture: *Biological Sciences*, Pearson Custom Edition for University of Montana

Laboratory: *Discovering Biology: a Symbiosis Laboratory Guide*. Compiled by Kevin Murray.

General Course Content:

Biology is a very broad area of study. In this course we will examine issues ranging from the chemical nature of living things to how living things stay alive and how organisms evolve and live together in the biosphere. Lecture and laboratory components of the course are required for a full understanding of many of the issues covered. A primary objective of this course is to help you better understand some of the interesting features of the world around you and to help you make better informed decisions about issues with a biological component.

Grading:

In lecture there will be 2 mid-term exams and a final exam; the final is not comprehensive. Exams are objective (true/false, multiple choice). Each exam will be worth approximately 75 points. SCANTRONS (50 responses, single column) are required for the lecture exams.

Your grade in this course can be modified (either up or down) by classroom attendance and participation and is a composite of your lecture and laboratory scores and performance. Laboratory instructors will explain grading procedures and student obligations in the laboratory segment of the course.

Classroom attendance, make-up exams, etc.:

Your participation in classroom discussions can affect your final grade; please attend class on a regular basis. Disruptive behavior such as talking or leaving lecture early is not acceptable. If you expect to leave class early, please tell me before class begins. Make-up exams will be permitted only with compelling and supported reasons. Make-up exams will take place one week after the scheduled exam and be arranged during office hours of your laboratory instructor.

Laboratory component of course:

You are required to attend laboratory and participate in investigations. Your lab grade will contribute to approximately 1/3 of your overall course grade. There are no "make-up" labs, but you can generally attend another lab section during the week with prior arrangement with instructors of the labs.

Labs meet M - T- W- R (Thursday); check your class schedule for the exact time depending on what section you have registered for.

BIOB 101 Lecture Outline Fall 2014

<u>Date</u>	<u>Lecture Topic</u>	<u>Text ReferencePages</u>
25 Aug 27Aug	Course introduction: Scope of Biology Chemistry for Biology	23 – 27
01 Sep 03 Sep	no class Chemistry for biology	28 – 34
08 Sep 10 Sep	Molecules of life Molecules of life	42 – 48 49 – 53
15 Sep 17 Sep	Molecules of life Tour of the cell	54 – 59 64 – 68
22 Sep 24 Sep	Tour of the cell Tour of the cell	69 – 73 74 – 80
29 Sep 01 Oct	Exam I Cell respiration	88 – 102*
06 Oct 08 Oct	Cell respiration Cell respiration	108 – 113 114 – 118
13 Oct 15 Oct	Photosynthesis Photosynthesis	126 – 129 130 – 133
20 Oct 22 Oct	Photosynthesis summary: Ps & Rs	134 – 135
27 Oct 29 Oct	Exam II Evolution and natural selection	178 – 180
03 Nov 05 Nov	Evolution and natural selection Evolution and natural selection	174 – 177 182 – 188
10 Nov 12 Nov	Structure and function of DNA Structure and function of DNA	142 – 150 142 – 150
17 Nov 21 Nov	DNA: mutations Human evolution	156 – 157
24 Nov 26 Nov	Human evolution no class	218 – 219 ; 224 – 226
01 Dec 03 Dec	Human impacts on biosphere Human impacts on biosphere	238 – 264*
12 Dec	Final Exam (8:30 – 10:00 am)	